Forestland Productivity and Management Ogemaw County, Michigan

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation.)

	 	 	 		Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant
10B: Grayling	 Slight 	 Well suited 	 Slight 	Low	Jack pine Northern pin oak Quaking aspen Red pine White oak	 43 	 57 29 	 Jack pine, red pine.
10C: Grayling	 Moderate 	 Well suited 	 Slight 	Low	Jack pine Northern pin oak Quaking aspen Red pine White oak	 48 43 	 57 29 	Jack pine, red
10E: Grayling	 Moderate Slope/erod ibility 	 Poorly suited Slope 	 Slight 	Low	Jack pine Northern pin oak Quaking aspen Red pine White oak	 43 	 57 29 	Jack pine, red
11B: Rubicon	 Slight 	 Well suited 	 Slight 	Low	Bigtooth aspen	 45 53	 72 72 72 72	Eastern white pine, jack pine, red pine.
11c:					Paper birch	 60 57	 57 29 86	
Rubicon	Moderate 	Well suited 	Slight 	Low	Bigtooth aspen Eastern white pine Jack pine Northern red oak Paper birch Quaking aspen Red maple Red pine	45 53 60	72 72 72 57 29 86	Eastern white pine, jack pine, red pine.

^{*}See footnote at end of table.

	 	 			 Potential prod ¹ 	uctivi	ty		
Map symbol and soil name	Erosion hazard potential	preparation	Windthrow n hazard s potential	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant	
Rubicon	 Moderate 	 Poorly suited	 Slight 	 Low 	 Bigtooth aspen 	 66 	 72 	 Eastern white pine, jack pine, red pine.	
	 Slope/erod ibility	 Slope 	 		 Eastern white pine 	 45 	 72 	pine. 	
	<i>1</i> 	 			Jack pine Northern red oak Paper birch		72 		
	 	 			Quaking aspen		57	 	
	j	į	İ	İ	Red maple		29	j	
	 	 			Red pine	53 	86 	 	
11F: Rubicon	 Severe 	 Unsuited 	 Slight 	Low	 Bigtooth aspen 	 66 	 72 	 Eastern white pine, jack pine, red pine.	
	 Slope/erod ibility	 Slope 			 Eastern white pine	45 45	72 		
		İ		İ	Jack pine		72	İ	
		ļ			Northern red oak				
					Paper birch				
	l I	l I	 		Quaking aspen Red maple	60 57	57 29	l I	
					Red maple		86		
12B: Croswell	 Slight 	 Well suited 	 Slight 	 High 	 Bigtooth aspen 	 69 	 86 	 Eastern white pine, red pine, white spruce.	
	İ	İ	Wetness	Wetness	Black cherry		i		
	į	į		İ	Eastern white pine		ļ	į	
					Jack pine		72		
	l I	 	 		Northern red oak Paper birch		 57	 	
	l I	l I	 		Quaking aspen		72	! !	
	İ	İ		i	Red maple			İ	
	į I	į I			Red pine	55 I	86		
13A: Au Gres	 Slight 	 Unsuited 	 	 High 	 Balsam fir 	 	 	Norway spruce, eastern white pine, red pine, white spruce.	
14:		Wetness	Wetness	Wetness 	Bigtooth aspen Eastern hemlock Eastern white pine Jack pine Northern white-cedar Paper birch Quaking aspen Yellow birch	 51 70 65	 72 86 43		

	 	 	 		 Potential produ	uctivit	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested
Roscommon	 Slight 	 Unsuited 	 Severe 	 High 	 Balsam fir 	 	 	 Black spruce, northern white-cedar, tamarack.
	į	Wetness	Wetness	Wetness	Black spruce			į
	l I	l I	 		Jack pine Northern white-cedar		 	l I
		 			Quaking aspen		86	
	İ	j	İ	İ	Red maple			j
	 	 			Yellow birch	 	 	
l7B: Graycalm	 Slight 	 Well suited 	 Slight 	 Low 	 Bigtooth aspen] 	 86 	 Eastern white pine, red pine.
					Eastern white pine			
	 	l I	 		Jack pine Northern red oak		86 57	l I
		 			Paper birch			
	İ	j	İ	İ	Quaking aspen	60	57	j
	 	 			Red pine	61 	100 	
17C: Graycalm	 Moderate 	 Well suited 	 Slight 	Low	 Bigtooth aspen 	 70 	 86 	 Eastern white pine, red pine.
					Eastern white pine			Pinc.
	İ	j	İ	į	Jack pine	56	86	į
					Northern red oak		57	
	 	l I	 		Paper birch Quaking aspen		 57	
	 	 			Red pine	61	100	
l7E: Graycalm	 Moderate 	 Poorly suited	 Slight 	 Low 	 Bigtooth aspen	 70 	 86 	 Eastern white pine, red pine.
	 Slope/erod	Slope			Eastern white pine			pine.
	ibility	ļ		ļ				ļ
	 	l I	 		Jack pine Northern red oak		86 57	l I
	 	 	 		Paper birch			
		İ		İ	Quaking aspen	60	57	İ
		 			Red pine	61 	100 	
 Klacking 	 Slight 	 Well suited 	 Slight 	 Low 	 Bigtooth aspen 	 70 	 86 	 Eastern white pine, red pine.
	İ	İ		İ	Black cherry			1
					Jack pine			
	 	l I	 		Northern pin oak Northern red oak		 57	
	 		[Quaking aspen		57	
	İ	į	İ	İ	Red maple			į
				1	In a '		i	I.
	<u> </u>	 			Red pine White oak		43	

	j I	İ			Potential prod	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		Potential Seedling Mortality	Common trees		 Volume of wood fiber*	 Suggested trees to plant
Klacking	 Moderate 	 Well suited 	 Slight 	 Low 	 Bigtooth aspen	 70 	 86 	 Eastern white pine, red pine.
	ļ	ļ		İ	Black cherry			
					Jack pine		 	
	l I		 		Northern pin oak		 57	
	l I	l I	 		Quaking aspen			
	İ	İ	 	i	Red maple			
	İ	į		İ	Red pine			
	 	 			White oak		43	
18E: Klacking	 Moderate 	 Poorly suited 	 Slight 	Low	 Bigtooth aspen 	 70 	 86 	Eastern white pine, red pine.
	Slope/erod ibility	Slope			Black cherry	 		
		İ			Jack pine			
	į	į	ĺ	į	Northern pin oak			İ
					Northern red oak		57	
					Quaking aspen		 	
	l I		 		Red maple		 	
	 				White oak		43	
20B: Montcalm	 Slight 	 Well suited 	 Slight 	 Low 	 Balsam fir	 	 	 Eastern white pine, red pine, white spruce.
		İ			Bigtooth aspen			BPIGCE.
	İ	j		İ	Eastern white pine			İ
	ļ	[Northern red oak		43	
					Paper birch		 	
	l I		 		Quaking aspen Red maple	 	 	
		i	 		Red maple	 	 	
	 	 			Sugar maple Yellow birch	61	43 	 -
20C: Montcalm	 Moderate 	 Well suited 	 Slight 	Low	 Balsam fir 	 	 	Eastern white pine, red pine, white
	i i		[[Bigtooth aspen		 	spruce.
	İ	İ		i	Eastern white pine			
	į	İ	İ	i	Northern red oak	66	43	İ
	ļ	ļ		İ	Paper birch			
					Quaking aspen			
	I I		 	-	Red maple		 	
			 		Sugar maple		l	
	i	i	İ		Yellow birch		l	İ
					I CTIOW DITCH		l	

		 	 		Potential prod	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	 Site preparation limitations		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant
Montcalm	 Moderate 	 Poorly suited 	 Slight 	 Low 	 Balsam fir 	 	 	 Eastern white pine, red pine, white spruce.
	Slope/erod ibility	Slope	 		Bigtooth aspen		 	
					Eastern white pine Northern red oak Paper birch Quaking aspen Red maple Sugar maple Yellow birch	66 61	 43 43	
21:	İ	İ					İ	i I
Histosols	Slight 	Unsuited Wetness	Severe Wetness	High Wetness	 	 	 	
Aquents	 Slight 	 Unsuited Wetness 	 Severe Wetness 	 High Wetness		 	 	
22B: Nester	 Slight 	 Well suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white spruce.
					American beech Black cherry		 	spruce.
		İ			Northern red oak			
	Í I	 			Quaking aspen Sugar maple White ash	61	 43 	
	į į	j I	<u> </u> 	İ	White oak	j I	 	j
22B2: Nester	 Slight 	 Well suited 	 Slight 	Low	American basswood	 	 	 Norway spruce, eastern white pine, red pine, white
		 	 		 American beech		 	spruce.
		İ		İ	Black cherry	i		İ
					Northern red oak			
		I I	 		Quaking aspen Sugar maple		 43	
					White ash			
					White oak		ļ	
22C:] 	1		

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	 	 	 		Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	 Site preparation limitations		Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant
Nester	 Slight 	 Well suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white
					American beech Black cherry Northern red oak Quaking aspen Sugar maple White ash White oak	 61 	 43 	spruce.
22C2: Nester	 Slight 	 Well suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white
					American beech Black cherry Northern red oak Quaking aspen Sugar maple White ash White oak	 61 	 43 	spruce.
22D: Nester	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white
	Slope/erod ibility 	 Slope 			American beech	 61 	 43 	spruce. - - - -
22D2: Nester	 Moderate 	 Poorly suited 	 Slight 	 Low 	 American basswood 	 	 	Norway spruce, eastern white pine, red pine, white
	Slope/erod ibility 	Slope			American beech Black cherry Northern red oak Quaking aspen Sugar maple White ash White oak	 61	 43 	spruce.
22D3: Nester	 Moderate Slope/erod ibility	 Poorly suited Slope 	 Slight 	Low		 	 	
22E:	 	 				 	 	

^{*}See footnote at end of table.

	 	 			Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	 Site preparation limitations		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested
Nester	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white
	Slope/erod ibility	Slope			American beech Black cherry Northern red oak Quaking aspen Sugar maple White ash White oak	 61 	 43 	spruce.
22F: Nester	 Severe 	Unsuited	 Slight 	 Low 	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white spruce.
	Slope/erod ibility 	Slope			American beech Black cherry Northern red oak Quaking aspen Sugar maple White ash White oak	 61 	 43 	
23B: Kawkawlin	 Slight 	 Well suited 	 Moderate 	 High 	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white spruce.
			Wetness	Wetness 	Bigtooth aspen Northern red oak Quaking aspen Red maple Sugar maple Swamp white oak White ash	 -0 60 		
24: Sims	 Slight 	Well suited	 Severe Wetness 	 High Wetness 	American basswood Balsam fir Bigtooth aspen Black spruce Northern white-cedar Quaking aspen White ash	 57 		
25B:	İ	İ			İ		İ	

Map symbol and soil name		!						
	Erosion hazard potential	preparation	Windthrow n hazard s potential	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	 Suggested trees to plant
 	Slight	 Poorly suited	Slight	 High 	 American basswood 	 55 	 29 	 Eastern white pine, white spruce.
		Stickiness	Wetness	Wetness	American beech			
					Balsam fir		100	
i				İ	Eastern hemlock			ĺ
ļ					Eastern white pine			
					Paper birch Quaking aspen		72	
}					Sugar maple		 	
i					White spruce	54	I	
į		j i		j	į	ĺ	į	İ
25B2: Kent	Slight	 Poorly suited	Slight	 High 	 American basswood 	 55 	 29 	 Eastern white pine, white spruce.
ļ		Stickiness	Wetness	Wetness	American beech			
					American elm Balsam fir		100	
}					Baisam fir Eastern hemlock		100	
i					Eastern white pine	1		
i				İ	Paper birch	63		
į		į		į	Quaking aspen		ļ	İ
					Sugar maple			
}					White spruce	54 	114	
25C:				İ				
Kent	Slight	Poorly suited	Slight	Low	American basswood	55 	29 	Eastern white pine, white spruce.
ļ		Stickiness			American beech		ļ	
					American elm			
					Balsam fir Eastern hemlock		100	
i					Eastern white pine	1		
į		į i		i	Paper birch		72	İ
ļ					Quaking aspen			
					Sugar maple		 114	 -
}					White spruce	54 	114	
25C2: Kent	Slight	 Poorly suited	Slight	 Low 	American basswood	 55	 29 	 Eastern white pine, white
		 Stickiness			American beech	 	 	spruce.
i				İ	American elm			İ
į		į		j	Balsam fir		100	j
ļ		[Eastern hemlock			
					Eastern white pine		 72	 -
					Paper birch Quaking aspen			
				İ	Sugar maple			
İ		į		İ	White spruce	54	114	İ

	 	 	 		Potential produ	uctivi	ty	
Map symbol and soil name	 Erosion hazard potential	 Site preparation limitations		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant
Kent	 Moderate 	 Poorly suited	 Slight 	 Low	 American basswood 	 55 	 29 	 Eastern white pine, white
	 Slope/erod ibility	 Slope			American beech	 	 	spruce.
	IBITICY 	Stickiness			American elm	54 63 	 100 72 	
		 			Sugar maple White spruce		114	
26B: Selkirk	 Slight 	 Poorly suited 	 Moderate 	 High 	 Balsam fir 	 	 	 Eastern white pine, northern white-cedar, white spruce.
		Stickiness	Wetness	Wetness 	Eastern hemlock Quaking aspen Red maple Sugar maple White spruce	58 	86 57 	winte spruce.
27: Pickford	 Slight 	 Poorly suited 	 Severe 	 High 	 Balsam fir	 45 	 86 	 - Eastern white pine, white spruce.
	 	Stickiness	Wetness	Wetness 	Black ash Eastern hemlock Northern white-cedar Paper birch Quaking aspen White spruce	 	 86	
28: Udorthents	 Slight 	 Well suited 	 Slight 	Low		 	 	
29: Udipsamments	 Slight 	 Well suited 	 Slight 	 Low		 	 	
30B: Isabella	 Slight 	 Well suited 	 Slight 	 Low 	 American basswood 	 	 	 Norway spruce, red pine, white spruce.
					American beech Bigtooth aspen Eastern white pine Paper birch Red maple White oak	85 	 100 	white spruce.
30C:		 -	 			 	 	

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	 	 	 	 	Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant
Isabella	 Slight 	 Well suited 	 Slight 	 Low 	 American basswood 	 	 	 Norway spruce, red pine, white spruce.
		 			American beech Bigtooth aspen Eastern white pine Paper birch	85 	 100 	white sprace.
	 	 	 	 	Red maple Sugar maple White oak	 	 	
30D: Isabella	 Moderate 	 Poorly suited	 Slight 	 Low 	 American basswood	 	 	 Norway spruce, red pine,
	 Slope/erod ibility	 Slope			 American beech	 	 	white spruce.
		 	 	 	Bigtooth aspen Eastern white pine	i	100	
	 	 	 	 	Paper birch Red maple Sugar maple	i	 	
	 	 			White oak		 	
30E: Isabella	 Moderate 	 Poorly suited	 Slight 	 Low 	 American basswood 	 	 	 Norway spruce, red pine, white spruce.
	 Slope/erod ibility	Slope	 	 	American beech	İ	 	white spidee.
	 	 	 	 	Bigtooth aspen Eastern white pine Paper birch	i	100 	
	 	 	 	 	Red maple Sugar maple White oak	 	 	
32: Angelica	 Slight	 Well suited	Severe	 High	 Balsam fir	 54	 100	 White spruce.
5			Wetness Rooting depth limitation (severe)	Wetness 	Black ash Northern white-cedar		 	
	 	 	 - -	 	Paper birch Quaking aspen Yellow birch	60	 57 	
36B: Alcona	 Slight 	 Well suited 	 Slight 	Low	 American basswood 	 	 	 Eastern white pine, red pine, white spruce.
	 	 	 	 	American beech Eastern white pine		 	spruce.
	<u> </u> 	į Į			Northern red oak Red maple	 		
	 	 	 	 	Red pine Sugar maple White ash	61	 43 	
37A:	 	 	 	 	Yellow birch	 	 	

^{*}See footnote at end of table.

	 		 		Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations	Windthrow n hazard s potential	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	 Suggested trees to plant
Ingalls	 Slight 	Unsuited	 Moderate 	 High 	 	 	 	Eastern white pine, northern white-cedar, white ash, white spruce.
		Wetness	Wetness	Wetness 	Eastern hemlock Jack pine Northern pin oak Northern white-cedar Paper birch Quaking aspen Red maple Sugar maple White ash	 60 	 57 	
38: Tonkey	 Slight 	 Unsuited Wetness 	Severe Wetness 	 High Wetness 	American basswood American elm Balsam fir Northern white-cedar Quaking aspen Red maple Swamp white oak	 61 	43 72 	
39: Pits	 Not rated 	 Not rated 	 Not rated 	Not rated Horizon table contains no data		 	 	
42C: Nester	 Slight 	Well suited	Slight	Low	American basswood American beech Black cherry Northern red oak Quaking aspen Sugar maple White ash	 61 	 43 	Norway spruce, eastern white pine, red pine, white spruce.
Mancelona	 Slight 	 Well suited 	 Slight 	Low	White oak Eastern white pine Jack pine Northern red oak Red pine Sugar maple Yellow birch	 58	 43	Eastern white pine, jack pine, red pine.
43B:								

	 		 		Potential prod	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant
East Lake	 Slight 	 Well suited 	 Slight 	 Low 	 Jack pine	 	 	 Eastern white pine, jack pine, red pine.
					Northern red oak Paper birch Quaking aspen Red maple Red pine	 53		pine.
44B: Croswell, loamy substratum	 Slight 	 Well suited 	 Slight 	 High 	 American basswood 	 	 	Eastern white pine, jack pine, red pine.
			 Wetness 	Wetness 	Bigtooth aspen Eastern white pine Jack pine Northern pin oak Northern red oak Paper birch Quaking aspen Red maple Red pine	 	 100	pine. - - - -
45: Wheatley	 Slight 	 Unsuited 	 Severe 	 High 	 Balsam fir 	 40 	 72 	 Norway spruce, eastern white pine, white
	 	Wetness - -	 Wetness 	Wetness 	Black spruce Eastern hemlock Northern white-cedar Quaking aspen Red maple	 15 45	29 43 29 29	spruce.
46B: Mancelona	 Slight 	 Well suited 	 Slight 	 Low 	 Eastern white pine 	 	 	 Eastern white pine, jack pine, red
					Jack pine Northern red oak Red pine Sugar maple Yellow birch	 58	 43 	pine.
46C: Mancelona	 Moderate 	 Well suited 	 Slight 	 Low 	 Eastern white pine	 	 	Eastern white pine, jack pine, red pine.
	 				Jack pine Northern red oak Red pine Sugar maple Yellow birch	 58	 43	
46E:	 					 	İ	

		 	 		Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	 Site preparation limitations	Windthrow n hazard s potential	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plan
Mancelona	 Moderate 	 Poorly suited 	 Slight 	 Low 	 Eastern white pine 	 	 	 Eastern white pine, jack pine, red
	Slope/erod ibility	 Slope	 		 Jack pine	 	 	pine.
	IDITICY 	 	 		Northern red oak Red pine Sugar maple	 58	 43	
		 	 		Yellow birch	 	 	
46F: Mancelona	 Severe 	 Unsuited 	 Slight 	 Low 	 Eastern white pine 	 	 	 Eastern white pine, jack pine, red pine.
	Slope/erod ibility	Slope	 		Jack pine	 	 	
		 	 	 	Northern red oak Red pine Sugar maple Yellow birch	 58	 43 	
47A: Gladwin	 Slight 	 Unsuited 	 Moderate 	 High 	 Balsam fir	 	 	 Eastern white pine, white spruce.
	 	Wetness 	Wetness	Wetness 	Bigtooth aspen Eastern white pine Paper birch Quaking aspen White oak White spruce	55 69 68 	 100 86 72 43	
48: Epoufette	 Slight 	 Unsuited Wetness 	 Severe Wetness 	 High Wetness 	Balsam fir Black spruce Northern white-cedar Quaking aspen Red maple Yellow birch	46 45 42	 43 29 29	
49A: Colonville	 Slight 	 Unsuited 	 Moderate 	 High 	 American basswood 	 65 	 57 	Norway spruce eastern whit pine, northern red
		 Wetness 	 Wetness 	 Wetness 	Balsam fir Northern white-cedar Quaking aspen Red maple Swamp white oak White ash	45 61 66	 114 72 43 43 57	oak, norther white-cedar, white spruce

	 	 	 		Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant
Menominee	 Slight 	 Well suited 	 Slight 	 Low 	 American basswood 	 	 	 Eastern white pine, red pine, white spruce.
	<u> </u> 	 	 	<u> </u> 	Bigtooth aspen Black cherry	i	86 	
	 	 	 		Northern red oak Paper birch		57	
		 			Quaking aspen Red pine	74	86 1114	
	 	 	 		Sugar maple		114	
	j I	<u> </u> 	j 	į I	White ash Yellow birch	77	72	
50C: Menominee	 Slight 	 Well suited 	 Slight 	Low	 American basswood 	 	 	Eastern white pine, red pine, white spruce.
					Bigtooth aspen		86	Spidoc.
	 	 	 		Black cherry Northern red oak		 57	
	į	į	į	İ	Paper birch			
	 		 		Quaking aspen Red pine		86 114	
	į		į		Sugar maple			
	 	 	 		White ash Yellow birch		72	
50D: Menominee	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	Eastern white pine, red pine, white
	 Slope/erod ibility	 Slope 	 	 	 Bigtooth aspen	 76 	 86 	spruce.
					Black cherry			
	 				Northern red oak Paper birch		57	
	į		İ		Quaking aspen	74	86	
	 	 	 		Red pine		114	
	 		 		White ash Yellow birch	77	72 	
50E: Menominee	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	Eastern white pine, red pine, white
	 Slope/erod ibility	 Slope 	 	 	 Bigtooth aspen	 76 	 86	spruce.
					Black cherry			
	 	 	 		Northern red oak Paper birch		57	
					Quaking aspen	74	86	
	 	 	 		Red pine Sugar maple	62 	114	 -
					White ash Yellow birch	77 77	72	
51B:	i I	 	<u> </u> 	<u> </u> 	į Į		İ İ	i I

^{*}See footnote at end of table.

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	 	 	 		Potential prod	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		Potential Seedling Mortality	Common trees		 Volume of wood fiber*	 Suggested trees to plant
Iosco	 Slight 	 Unsuited 	 Moderate 	 High	 Balsam fir	 55 	 114 	 Eastern white pine, white spruce.
		Wetness 	Wetness	Wetness 	Eastern white pine Northern pin oak Paper birch Quaking aspen Red maple White ash White spruce Yellow birch	 58 65 	 57 72 	spruce.
52: Brevort	 Slight 	 Unsuited 	 Severe 	 High 	 American basswood 	 	 	 Eastern white pine, northern white-cedar.
		Wetness - -	Wetness - -	Wetness	Balsam fir Black spruce Northern white-cedar Quaking aspen Red maple	15 40	 29 29 	
53B: Manistee	 Slight 	 Well suited 	 Slight 	Low	 American basswood	<u> </u> 	 	Eastern white pine, red pine.
					Bigtooth aspen Eastern hemlock Eastern white pine Northern red oak Red maple Red pine Sugar maple White ash	 56 	86 43 43 	
53C: Manistee	 Slight 	 Well suited 	 Slight 	Low	American basswood	 	 	 Eastern white pine, red
					Bigtooth aspen Eastern hemlock Eastern white pine Northern red oak Red maple Red pine Sugar maple White ash	 56 	86 43 43 	pine.
53D: Manistee	 Moderate 	 Poorly suited	 Slight 	Low	 American basswood	 	 	 Eastern white pine, red
	Slope/erod ibility 	Slope			Bigtooth aspen Eastern hemlock Eastern white pine Northern red oak Red maple Red pine Sugar maple White ash	 56 	86 43 43 	pine.
54B:		İ						

^{*}See footnote at end of table.

	 		 		Potential prod	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested
Allendale	 Slight 	 Well suited 	 Moderate 	 High	 Balsam fir 	 	 	 Eastern white pine, white
			Wetness	Wetness 	Eastern white pine Paper birch Quaking aspen Red maple White ash White spruce	 60 	 57 	spruce. - - -
57A: Belding	 Slight 	 Well suited 	 Moderate 	 High 	 American basswood 	 55 	 43 	 Eastern white pine, white spruce.
			Wetness	Wetness 	American elm Black ash Eastern white pine Northern red oak Quaking aspen Red maple Sugar maple Swamp white oak White ash	 55 55 54	 43 29 29 	
63: Evart	 Slight	 Unsuited	 Severe	 High	 	 40	 72	 Black spruce, tamarack.
		Wetness	Wetness	Wetness	Black spruce Northern white-cedar Quaking aspen Red maple Swamp white oak Tamarack	15 45 40	29 29 29 29 29 	Camarack.
64B: Melita	 Slight 	 Well suited	 Slight 	Low	 American basswood 	 	 	 Eastern white pine, red
					American beech Black cherry Eastern white pine Quaking aspen Red maple Red pine Sugar maple Yellow birch	 61	 43 	pine.
64C: Melita	 Moderate 	 Well suited	 Slight 	Low	 American basswood 	 	 	 Eastern white pine, red
					American beech Black cherry Eastern white pine Quaking aspen Red maple Red pine Sugar maple	 61	 43	pine.
65:	 		 		Yellow birch	 	 	

^{*}See footnote at end of table.

	 	 	 		 Potential produ	uctivi	ty	 -
Map symbol and soil name	Erosion hazard potential	preparation		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	 Suggested trees to plant
Arnheim	 Slight 	 Unsuited Wetness 	Severe Wetness 	 High Wetness 	American elm Balsam fir Black spruce Northern white-cedar Paper birch Quaking aspen Red maple Tamarack White spruce	 	 72	
70: Loxley	 Slight 	 Unsuited Wetness 	 Severe Wetness 	 High Wetness 	 Balsam fir Black spruce Tamarack	15	 29 	
71: Dawson	 Slight 	 Unsuited Wetness	 Severe Wetness	 High Wetness 	 Black spruce Tamarack		 29 	
74: Cathro	 Slight 	 Unsuited Wetness 	Severe Wetness	 High Wetness	Balsam fir Black spruce Northern white-cedar Paper birch Tamarack White spruce	15 15 40 35	 72 29 29 29 29	 White spruce.
76: Lupton	 Slight 	 Unsuited Wetness 	 Severe Wetness 	 High Wetness 	Balsam fir	 20 	86 29 	
77: Tawas	 Slight 	 Unsuited Wetness	 Severe Wetness	 High Wetness	Balsam fir	 	72 	
78: Rondeau	 Slight 	 Unsuited Wetness	 Severe Wetness 	 High Wetness		 	 	
79: Grousehaven	 Slight 	 Unsuited Wetness	 Severe Wetness	 High Wetness		 	 	
82B:			 			 		

^{*}See footnote at end of table.

	 	 			 Potential prod	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations		Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant
Nester	 Slight 	 Well suited 	 Slight 	Low	 American basswood 	 	 	Norway spruce, eastern white pine, red pine, white spruce.
					American beech Black cherry Northern red oak Quaking aspen Sugar maple White ash White oak	 61 	 43 	
Manistee	 Slight 	 Well suited 	 Slight 	 Low 	 American basswood 	 	 	Eastern white pine, red
					Bigtooth aspen Eastern hemlock Eastern white pine Northern red oak Red maple Red pine Sugar maple White ash	 56 	 	pine.
82C: Nester	 Slight 	 Well suited 	Slight - -	Low	 American basswood 	 	 	Norway spruce, eastern white pine, red pine, white
					American beech Black cherry Northern red oak Quaking aspen Sugar maple White ash White oak	 61 	 43 	spruce.
Manistee	 Slight 	Well suited	 Slight 	Low	American basswood Bigtooth aspen Eastern hemlock Eastern white pine Northern red oak Red maple Sugar maple White ash	 74 56 	 43	Eastern white pine, red pine.
82D:								

	 	 	 		Potential prod	uctivi	ty	Norway spruce, eastern white pine, red pine, white spruce.
Map symbol and soil name	Erosion hazard potential	 Site preparation limitations	Windthrow hazard s potential	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested
Nester	 Moderate 	 Poorly suited	 Slight 	 Low 	 American basswood 	 	 	pine, red pine, white
	 Slope/erod ibility	 Slope 	 		 American beech	 	 	spruce.
					Black cherry Northern red oak		 	
	I I	I I	l I		Quaking aspen			I I
	i	i			Sugar maple		43	
	j	j	İ	i	White ash			j
			j I	İ	White oak			
Manistee	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	
	Slope/erod ibility	Slope	 		Bigtooth aspen	74 	86 	
				İ	Eastern hemlock			
	!	!			Eastern white pine			
					Northern red oak		43	
					Red maple		 	
	l I	l I	 		Sugar maple		 43	
	İ	İ			White ash			İ
82E: Nester	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white spruce.
	Slope/erod ibility	Slope	 	į	American beech	i		
	İ	İ	İ	i	Black cherry			İ
	j	j	j	İ	Northern red oak			j
	ļ	ļ			Quaking aspen			ļ
					Sugar maple		43	
			 		White ash White oak		 	
Manistee	 Moderate 	 Poorly suited	 Slight 	Low	 American basswood 	 	 	 Eastern white pine, red pine.
	 Slope/erod ibility	 Slope 	 		 Bigtooth aspen	74	 86 	pine.
	1011107				 Eastern hemlock		 	
	İ	İ	į	İ	Eastern white pine			İ
	İ	İ	İ	İ	Northern red oak		43	į
	ļ	ļ		ļ	Red maple			
					Red pine			
					Sugar maple White ash		43	
83B: Rubicon	 Slight 	 Well suited 	 Slight 	 Low 	 Bigtooth aspen 	 75 	 86 	 Eastern white pine, jack pine, red pine.
	İ	i	İ	i	Red pine	, 		

^{*}See footnote at end of table.

	 	 	 		Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations	Windthrow n hazard s potential	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plan
Menominee	 Slight 	 Well suited 	 Slight 	 Low 	 American basswood 	 	 	 Eastern white pine, red pine, white spruce.
	j I	j I		İ	Bigtooth aspen		86 	
					Northern red oak	63	57	
					Paper birch			
					Quaking aspen	74 62	86 114	
	l I	l I	l I		Sugar maple			
	İ	İ	İ	i	White ash		72	
	 	 	İ		Yellow birch		 	
83C: Rubicon	 Moderate 	 Well suited 	 Slight 	 Low 	 Bigtooth aspen 	 75 	 86 	 Eastern white pine, jack pine, red pine.
	 	 			Red pine			pinc.
Menominee Moderate Well	 Well suited 	Slight 	Low 	American basswood	 	 	 Eastern white pine, red pine, white spruce.	
	 	 	İ		Bigtooth aspen	l I 76	l 86	spruce.
	İ	İ	İ	İ	Black cherry			
			İ		Northern red oak		57	
					Paper birch			
	l I	l I	l I		Quaking aspen Red pine		86 114	
	l I	l I	I I		Sugar maple			
	İ	İ	İ	İ	White ash		72	
	<u> </u> 	<u> </u> 	İ		Yellow birch			
83E: Rubicon	 Moderate	 Poorly	 Slight	Low	 Bigtooth aspen	75	 86	 Eastern white
114011	 	suited				, , , , , , , , , , , , , , , , , , ,	00 	pine, jack pine, red pine.
	Slope/erod ibility	Slope 	 		Red pine	 	 	
Menominee	 Moderate 	 Poorly suited 	 Slight 	Low	American basswood	 	 	Eastern white pine, red pine, white prine, white spruce.
	 Slope/erod ibility	Slope	İ		Bigtooth aspen	76 	 86 	
		İ	İ	İ	Black cherry			İ
					Northern red oak		57	
					Paper birch	 74	 86	 -
					Quaking aspen Red pine	74 62	86 114	
	İ	İ	İ	İ	Sugar maple			İ
	İ	į I	İ		White ash Yellow birch	77	72	

		 			Potential produ	uctivi	ty	
Map symbol and soil name	Erosion hazard potential	 Site preparation limitations		 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	 Suggested trees to plant
Kent	 Slight 	 Poorly suited	 Slight 	 High 	 	 55 	 29 	 Eastern white pine, white
	 	 Stickiness 	 Wetness 	Wetness	 American beech American elm Balsam fir	j	 100	spruce.
		 		Eastern hemlock Eastern white pine Paper birch Quaking aspen	 63	 72	 	
	 	 	 		Sugar maple White spruce	ļ	 114	
Selkirk	 Slight 	 Poorly suited 	 Moderate 	 High 	Balsam fir	 	 	Eastern white pine, northern white-cedar, white spruce.
	 	Stickiness 	Wetness 	Wetness 	Eastern hemlock Quaking aspen Red maple Sugar maple	58 	86 57 	
86C:	 	 	 		White spruce		 	
Nester	 Slight 	 Well suited 	 Slight 	 Low 	 American basswood 	 	 	 Norway spruce, eastern white pine, red pine, white spruce.
	į				American beech Black cherry	i		
	 	 	 	 	Northern red oak Quaking aspen Sugar maple White ash	 61	 43 	
	<u> </u> 	 	[[White oak	j .	 	[[
Graycalm	Slight 	Well suited 	Slight 	Low	Bigtooth aspen 	į į	86 	Eastern white pine, red pine.
	 	 	 	 	Eastern white pine Jack pine Northern red oak Paper birch	56 62	 86 57 	
	 	 	 		Quaking aspen Red pine		57 100 	
86D: Nester	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	Norway spruce, eastern white pine, red pine, white spruce.
	Slope/erod ibility	 Slope 	 		American beech	 	 	
	 	 	 		Black cherry Northern red oak	j	 	
		 	 		Quaking aspen Sugar maple White ash	61	 43 	
	 	 	 		White ash White oak		 	

^{*}See footnote at end of table.

	 	 	 		 Potential prod	uctivi	ty	 	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations	!	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plant	
Graycalm	 Moderate 	 Poorly suited	 Slight 	 Low 	 Bigtooth aspen	 70 	 86 	 Eastern white pine, red pine.	
	 Slope/erod ibility	 Slope 	 		 Eastern white pine			pine.	
				 	Jack pine Northern red oak Paper birch	62	86 57 		
	 	 	 		Quaking aspen Red pine		57 100		
86E: Nester	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	Norway spruce, eastern white pine, red pine, white	
	 Slope/erod ibility	 Slope 	 	 	 American beech 	 	 	spruce. 	
		 	 	į	Black cherry Northern red oak				
	j I	j I	j i	İ	Quaking aspen Sugar maple		 43		
	 	 	 		White ash White oak	j			
Graycalm	 Moderate 	 Poorly suited	 Slight 	 Low 	 Bigtooth aspen	 70 	 86 	Eastern white pine, red	
	 Slope/erod ibility	 Slope 	 		 Eastern white pine		 	pine. 	
					Jack pine		86 57		
					Paper birch	i			
	 	 	 	ļ	Quaking aspen Red pine		57 100		
87C: Isabella	 Moderate 	 Well suited 	 Slight 	 Low 	 American basswood 	 	 	 Norway spruce, red pine,	
	 	 	 		 American beech	 	 	white spruce.	
	į	į			Bigtooth aspen	85	100		
	 	 	 		Eastern white pine Paper birch		 		
	İ	İ	İ		Red maple		 		
					Sugar maple White oak				
Melita	 Moderate 	 Well suited 	 Slight 	Low	 Northern red oak 	 	 86 	Eastern white pine, jack pine, red pine, red pine.	
	 	 	 		Red maple White oak		 72		
87E:	į Į	į Į	į Į	İ	i I		İ		

	 	 			Potential produ	ıctivit	ty	
Map symbol and soil name	 Erosion hazard potential	preparation	Windthrown hazard potential	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plan
Isabella	 Moderate 	 Poorly suited	 Slight 	 Low 	 American basswood 		 	 Norway spruce red pine, white spruce
	Slope/erod ibility	 Slope 	 		American beech	 	 	WHILE SPIUCE
	į -	į		į	Bigtooth aspen		100	İ
		ļ			Eastern white pine			
	!	ļ		!	Paper birch			
					Red maple		 	
		l I	 		Sugar maple White oak		 	
		l I	 		WHITE OAK		 	
Melita	 Moderate 	 Poorly suited 	 Slight 	Low	 Northern red oak 	80	 86 	 Eastern white pine, jack pine, red pine.
	Slope/erod ibility	Slope			Red maple		 	
					White oak	70	72	
90C: Rubicon	 Moderate 	 Well suited 	 Slight 	Low	 - Bigtooth aspen 	66	 72 	 Eastern white pine, jack pine, red
		ļ					ļ	pine.
					Eastern white pine		72	
					Jack pine		72	
			l I		Northern red oak Paper birch		 	l I
	}	l I			Quaking aspen		 57	
	1	l I	 		Red maple		29	
					Red pine	53	86	
Montcalm	 Moderate 	 Well suited 	 Slight 	Low	 Balsam fir 		 	 Eastern white pine, red pine, white spruce.
					Bigtooth aspen			
	!	ļ		!	Eastern white pine			
					Northern red oak		43	
		I I	 		Paper birch Quaking aspen		 	
		l	 		Red maple		 	!
	i	İ			Red maple			
	İ	İ		i	Sugar maple		43	
	į i	j I	<u> </u>		Yellow birch	 	 	
3C: Klacking Slight	 Well suited 	 Slight 	Low	 Bigtooth aspen 	70	 86 	 Eastern white pine, red pine.	
		ĺ	ĺ		Black cherry		i	ĺ
	[ļ			Jack pine			
	İ	ļ		!	Northern pin oak			
					Northern red oak	60	57	
			 		Quaking aspen			
		I I	 		Red maple Red pine		 	
		I I	 		White oak	57	43	
	1	!			mirce oak	ا ر	1 13	

^{*}See footnote at end of table.

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	 	 	 		Potential produ	uctivi	ty	İ	
Map symbol and soil name	Erosion hazard potential	Site preparation limitations 	Windthrow n hazard s potential	 Potential Seedling Mortality	Common trees		 Volume of wood fiber*	Suggested trees to plan	
Isabella	 Slight 	 Well suited 	 Slight 	 Low 	 American basswood 	 	 	 Norway spruce red pine, white spruce	
	 	 	 		American beech Bigtooth aspen Eastern white pine Paper birch	85 	 100 	white spide	
	 	 		 	Red maple Sugar maple White oak	 	 	 - 	
93D: Klacking	 Moderate 	 Poorly suited	 Slight 	 Low 	 Bigtooth aspen	 70 	 86 	 Eastern white pine, red pine.	
	 Slope/erod ibility	 Slope 	 		 Black cherry	 	 		
	 	 	 		Jack pine Northern pin oak	i		 	
	 	 	 		Northern red oak Quaking aspen Red maple	j	57 	 	
	 	 	 		Red pine White oak	i	43	 	
Isabella	 Moderate 	 Poorly suited	 Slight 	Low	 American basswood 	 	 	 Norway spruce red pine,	
	 Slope/erod ibility	 Slope 	 		American beech	 	 	white spruce 	
	ļ !	 	 		Bigtooth aspen Eastern white pine	i	100	 	
	 	 	 		Paper birch	i	 	 	
	 	 	 		Sugar maple White oak		 	 	
93E: Klacking	 Moderate 	 Poorly suited	 Slight 	Low	 Bigtooth aspen	 70 	 86 	 Eastern white pine, red	
	 Slope/erod ibility	 Slope 	 		 Black cherry	 	 	pine. 	
	j 	j 	 		Jack pine Northern pin oak	i	 	 	
	 	 	 		Northern red oak Quaking aspen		57 	 	
	 	 			Red maple Red pine White oak	i	 43	 	
Isabella	 Moderate 	 Poorly suited	 Slight 	Low	 American basswood 	 	 	 Norway spruce red pine, white spruce	
	 Slope/erod ibility	 Slope 	 		 American beech 	 	 	 wurce sbrace	
		j I	j I	İ	Bigtooth aspen Eastern white pine	85	100	j I	
					Paper birch	i			
	 	 	 		Red maple			 	
	į	į			White oak			į	
94B:							i		

^{*}See footnote at end of table.

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Map symbol and soil name	Erosion hazard potential	 Site preparation limitations		 Potential Seedling Mortality	Potential productivity			
					Common trees		 Volume of wood fiber*	Suggested trees to plant
Isabella	 Slight 	 Well suited 	 Slight 	Low	 American basswood	 	 	 Norway spruce, red pine,
					American beech Bigtooth aspen Eastern white pine Paper birch Red maple Sugar maple White oak	85 	 100 	white spruce. - - - -
Montcalm	 Slight 	 Well suited 	 Slight 	Low	 Balsam fir	 	 	Eastern white pine, red pine, white spruce.
					Bigtooth aspen Eastern white pine Northern red oak Paper birch Quaking aspen Red maple Red pine Sugar maple	 66 	 43 	
94C: Isabella	 Moderate	 Well suited 	 Slight 	Low	Yellow birch 	 	 	 Norway spruce, red pine,
					American beech Bigtooth aspen Eastern white pine Paper birch Red maple Sugar maple White oak	85 	i	white spruce
Montcalm	 Moderate 	 Well suited 	 Slight 	Low	 Balsam fir 	 	 	 Eastern white pine, red pine, white spruce.
					Bigtooth aspen Eastern white pine Northern red oak Paper birch Quaking aspen Red maple Sugar maple Yellow birch	 66 61	 43 	spruce.
94E: Isabella	 Moderate 	 Poorly suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, red pine, white spruce.
	Slope/erod ibility 	Slope			American beech Bigtooth aspen Eastern white pine Paper birch Red maple Sugar maple White oak	 85 	 100 	

^{*}See footnote at end of table.

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Map symbol and soil name	Erosion hazard potential	 Site preparation limitations	!	 Potential Seedling Mortality	Potential productivity			
					Common trees	!	 Volume of wood fiber*	Suggested trees to plant
Montcalm	 Moderate 	 Poorly suited 	 Slight 	Low	 Balsam fir	 	 	 Eastern white pine, red pine, white spruce.
	Slope/erod ibility	Slope	 		Bigtooth aspen	 	 	spruce.
		į		İ	Eastern white pine			į
					Northern red oak		43	
	l I	l I	 		Paper birch Quaking aspen		 	
	İ	İ		i	Red maple			İ
	İ	İ	j	İ	Red pine		i	j
					Sugar maple		43	
	 	 	 		Yellow birch	 	 	
97B: Isabella	 Slight 	 Well suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, red pine, white spruce.
	ļ	ļ		ļ	American beech			
					Bigtooth aspen Eastern white pine		100	
	 		 		Paper birch		 	
	İ	İ		İ	Red maple		i	İ
	İ	İ		į	Sugar maple			
	l I	l I	 		White oak			
Melita	 Slight 	 Well suited 	 Slight 	Low	American basswood	 	 	 Eastern white pine, red pine.
	ļ	ļ		ļ	American beech			
	l I	l I	l I		Black cherry Eastern white pine		 	l I
	 	 	 		Quaking aspen			
	İ	İ	İ	İ	Red maple			
	!	!		İ	Red pine			ļ
			 		Sugar maple Yellow birch		43	
97C: Isabella	 Moderate 	 Well suited 	 Slight 	Low	 American basswood 	 	 	 Norway spruce, red pine, white spruce.
	İ	İ	İ	į	American beech			
	[Bigtooth aspen		100	
			 		Eastern white pine		 	
	l		! 		Red maple			l I
	į	į	j	j	Sugar maple	i		į
			 		White oak	 	 	l I
Melita	Moderate 	 Well suited 	Slight 	Low	American basswood	 	 	Eastern white pine, red pine.
					American beech			
			 		Black cherry Eastern white pine		 	
	İ	İ			Quaking aspen			
	į	į	į	į	Red maple	i		į
					Red pine			
	I I	I I	 		Sugar maple Yellow birch	61 	43	
	İ	İ			TCTIOW DITCH			
	İ	İ	İ	i		i	i	İ

^{*}See footnote at end of table.

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Forestland Productivity and Management--Continued

ENDNOTE--FORESTLAND INTERPRETATIONS

The information in the above table can help forest owners or managers plan the use of soil for wood crops. They show the potential productivity of the soils for wood crops and rate the soils according to the limitations that affect various aspects of forest management.

The POTENTIAL PRODUCTIVITY of merchantable or COMMON TREES on a soil is expressed as a SITE INDEX and as a volume number. The site index is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even aged, unmanaged stands. Commonly grown trees are those that forest managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value and marketability.

The VOLUME OF WOOD FIBER, a number, is the yield likely to be produced by the most important tree species. This number, expressed as cubic feet per acre per year and calculated at the age of culmination of the mean annual increment (CMAI), indicates the amount of fiber produced in a fully stocked, even aged, unmanaged stand.

TREES TO MANAGE are those that are preferred for planting, seeding, or natural regeneration and those that remain in the stand after thinning or partial harvest.

Interpretative ratings are given for various aspects of forest management. Some rating class terms indicate the degree to which the soils are suited to a specified forest management practice. Well suited indicates that the soil has features that are favorable for the specified practice and has no limitations. Good performance can be expected, and little or no maintenance is needed. Moderately suited indicates that the soil has features that are moderately favorable for the specified practice. One or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. Poorly suited indicates that the soil has one or more properties that are unfavorable for the specified practice. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. Unsuited indicates that the expected performance of the soil is unacceptable for the specified practice or that extreme measures are needed to overcome the undesirable soil properties.

EROSION HAZARD POTENTIAL ratings are based on the soil erodibility factor K, slope, and content of rock fragments. The ratings apply to unsurfaced roads and trails. The hazard is described as slight, moderate, or severe. A rating of slight indicates that little or no erosion is likely; moderate indicates that some erosion is likely, that the roads or trails may require occasional maintenance; and that simple erosion-control measures are needed; and severe indicates that significant erosion is expected, tht the roads or trails require frequent maintenance, and that costly erosion-control measures are needed.

SITE PREPARATION LIMITATIONS ratings are based on slope, depth to a restrictive layer, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, poorly suited, or unsuited to this management activity. The part of the soil from the surface to a depth of about 1 foot is considered in the ratings.

Ratings in the column WINDTHROW HAZARD POTENTIAL is the likelihood that trees will be uprooted by wind because the soil is not deep enough for adequate root anchorage. The main restrictions that affect rooting are a seasonal high water table and the depth to bedrock, a fragipan, or other limiting layers. A rating of slight indicates that under normal conditions no trees are blown down by the wind. Strong winds may damage trees, but they do not uproot them. A rating of moderate indicates that some trees can be blown down during periods when the soil is wet and winds are moderate or strong. A rating of severe indicates that many trees can be blown down during these periods.

POTENTIAL SEEDLING MORTALITY ratings are based on flooding, ponding, depth to a water table, content of lime, reaction, salinity, available water capacity, soil moisture regime, soil temperature regime, aspect, and slope. The soils are described as having a low, moderate, or high potential for seedling mortality.

 $\,\,^*\text{Volume}$ is the yield in cubic feet per acre per year at the age of columniation of mean annual increment for fully stocked stands.

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